

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(PTO-1449)



ATTY. DOCKET NO.

19226/2091 (R-5629)

SERIAL NO.

09/982,821

APPLICANT

Kostyniak et al.

FILING DATE

October 18, 2001

GROUP

1614

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
W	1	3,952,105	04/20/76	Dorschner			
	2	4,054,537	10/18/77	Wright et al.			
	3	4,081,496	03/28/78	Finlayson			
	4	4,105,578	08/08/78	Finlayson et al.			
	5	4,216,135	08/05/80	Finlayson			
	6	4,278,047	07/14/81	Luca			
W	7	4,287,086	09/01/81	Finlayson et al.			

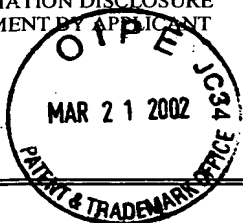
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPRO- PRIATE
	8	JP 07126120-A (abstract)		Japan			
	9	JP 63250309-A (abstract)		Japan			
	10	JP 07173022-A (abstract)		Japan			
	11	JP 03077801-A (abstract)		Japan			
	12	JP 01316303-A (abstract)		Japan			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

W		13	Ohashi et al., "Antimicrobial and Antifungal Agents Derived From Clay Minerals (II): Properties of Montmorillonite Supported by Silver Chelates of 1,10-phenanthroline and 2,2'-dipyridyl," <u>Applied Clay Science</u> , 6:301-10 (1992)
		14	Ohashi et al., "Antimicrobial and Antifungal Agents Derived from Clay Minerals," <u>Journal of Materials Science</u> , 27:5027-30 (1992)
		15	Ohashi et al., "Antimicrobial and Antifungal Agents Derived From Clay Minerals," <u>Journal of Materials Science</u> , 31:3403-07 (1996)
		16	Qawas et al., "The Adsorption of Bactericides by Solids and the Fitting of Adsorption Data to the Langmuir Equation By a Nonlinear Least-Squares Method," <u>Pharmaceutic Acta Helvetiae</u> 61(10-11):314-319 (1986)
W		17	Oya et al., "Antimicrobial and Antifungal Agents Derived From Clay Minerals (III): Control of Antimicrobial and Antifungal Activities of Ag ⁺ -exchanged Montmorillonite by Intercalation of Polyacrylonitrile, <u>Applied Clay Science</u> , 6:311-18 (1992)
EXAMINER		DATE CONSIDERED	
N. D. Long		5/5/03	
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	18	4,306,994	12/22/81	Ellslager			
	19	4,317,737	03/02/82	Oswald et al.			
	20	4,365,030	12/21/82	Oswald et al.			
	21	4,536,498	08/20/85	Tagami et al.			
	22	4,869,896	09/26/89	Coulston et al.			
	23	4,929,644	05/29/90	Guilbeaux			
	24	4,938,955	07/03/90	Niira, deceased et al.			
	25	5,145,674	09/08/92	Lane et al.			
	26	5,169,536	12/08/92	Vasconcellos et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE
	27	JP 04-300801 (abstract)		Japan			
	28	GB 1,565,362		Great Britain			
	29	JP 318,429 (abstract)		Japan			
	30	JP 084,993 (abstract)		Japan			
	31	JP 294,597 (abstract)		Japan			

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	32	Yamada et al., "Preparation and Properties of Antibacterial Clay Interlayer Compound," <u>Kagaku Kogaku Ronbunshu</u> 17(1):29-34 (1991) (abstract)	
	33	Oya et al., "Antimicrobial and Antifungal Agents Derived from Clay Materials," <u>Journal of Materials Science</u> 29(1):11-14 (1994)	
	34	Matome, "DEET Incorporation Onto HDTMA Treated BP Clay: A Basis for DEET Formulation with Decreased Percutaneous Absorption," Thesis submitted to SUNY at Buffalo (catalogued October 19, 1999)	
	35	Ohashi et al., "Antimicrobial and Antifungal Agents Derived From Clay Minerals," <u>J. Antibact. Antifung. Agents</u> , 21(11):591-595 (1993)	
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<i>M</i>	36	5,399,343	03/21/95	Smith, Jr.			
	37	5,589,195	12/31/96	Potter			
<i>✓</i>	38	6,015,816	01/18/2000	Kostyniak et al.			
	39	6,288,076	09/11/2001	Kostyniak et al.			

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<i>WPK</i>	40	WO 07/31709	09/04/97	WIPO			

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<i>M</i>	41	Norris et al., "Hydrophobic Nature of Organo-Clays as a Lewis Acid/Base Phenomenon," <u>Clays and Clay Minerals</u> , 40(3):327-334 (1992)
<i>M</i>	42	Insect Repellent Network, www.insect-repellent.net/home.htm (date unknown) <i>99 TRAVEL Health Guide</i>
<i>✓</i>	43	Qiu et al., "Pharmacokinetics of Insect Repellent N,N-Diethyl-m-toluamide in Beagle Dogs Following Intravenous and Topical Routes of Administration," <u>J. Pharmaceutical Sciences</u> , 86(4):514-516 (1997)
<i>✓</i>	43	Qiu et al., "Solid-Phase Extraction and Liquid Chromatographic Quantitation of Insect Repellent N,N-diethyl-m-toluamide in Plasma," <u>J. Pharmaceutical and Biomed. Analysis</u> , 15(2):241-250 (1996) (abstract)
<i>✓</i>	45	Marks et al., "Prevention of Poison Ivy and Poison Oak Allergic Contact Dermatitis by Quaternium-18 Bentonite," <u>J. American Academy of Dermatol.</u> , 33(2):212-216 (1995)
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<i>WPK</i>		<i>575703</i>
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